



Installation Questions?

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Monday – Friday



REMOTE CONTROL CAR STARTER

INSTALLATION INSTRUCTIONS

With Keyless Entry and Power Trunk Release

Model RS125

WARNING

This Remote Car Starter is for vehicles with automatic transmissions and fuel injected gasoline or diesel engines only. DO NOT install this Remote Car Starter in a standard stick (manual transmission) or a vehicle that has a carburetor. Serious personal injury or property damage could occur. Never use the Remote Start on a vehicle that is in a garage with the doors closed, an enclosed building, etc. Proper ventilation is required to avoid serious personal injury. Installation must be done by a qualified mechanic. We recommend that all connections be soldered.

PARTS LIST

- Remote start module
- Four button transmitter
- Ten wire harness
- Six wires for power and ignition hook up
- Three wire harness for optional door lock/unlock
- Three wire harness for optional power trunk release/
factory alarm disarm/vacuum switch
- LED
- Service/program switch
- Pin switch
- Bullet connector for pin switch
- Antenna
- Antenna double faced mounting tape
- Antenna extension harness
- Installation instructions
- Operating instructions

REMOTE STARTER INSTALLATION INSTRUCTIONS

ENTIRE INSTRUCTIONS SHOULD BE READ BEFORE BEGINNING INSTALLATION.

BEFORE YOU BEGIN THE INSTALLATION:

Please read all the installation and operating instructions thoroughly. Familiarize yourself with all the installation steps before you do anything. Refer to the remote start vehicle wiring guide. Most, but not all, vehicles are listed in the guide. If your vehicle does not appear, call our 800 number for specific information on your vehicle.

Tools required for the installation: A Philips or flathead screwdriver, wire cutters or stripper, electrical tape, drill, soldering iron and a multimeter or voltmeter.

Things to look for before beginning the installation:

A) Make sure that the vehicle has an automatic transmission. The remote starter will not operate on vehicles with manual (stick shift) transmissions.

B) Make sure it has a fuel injected gas engine, or a diesel engine. The remote starter will not operate on vehicles with carbureted engines.

C) See if the vehicle has an existing factory alarm system. Many late Ford and General Motors vehicles now include factory security systems. The Ford system is known as the PATS System, General Motors has the VATS, Passlock and Passkey Systems. Vehicles having these systems can be identified by the ignition key having a small resistor pellet or "chip" in it, and or a security light is present in the dash. If the vehicle has an existing factory alarm system you must purchase an optional factory alarm bypass kit for the remote starter to operate.

1) WARNING LABEL APPLICATION

Start the installation by applying the warning label to a highly visible location under the hood. This warns other mechanics that the vehicle is equipped with a remote starter, which should be disabled before working on the vehicle.

2) MOUNTING REMOTE STARTER MODULE

Select a suitable mounting area for the module inside the vehicle below the dash. Do not permanently secure the module until the installation is complete and the operation has been tested.

3) TEN WIRE HARNESS

White wire: Connect to the vehicle parking light wire that switches to +12 volts when the

parking lights are turned on.

Red wire: Connect this wire (with the in line fuse holder) to the +12 volt side of the battery.

Brown wire: Do not use this wire unless the vehicle has an existing alarm system with a shock sensor. If the vehicle has such an alarm, cut the ground wire on the sensor and connect one side to the Remote Starter brown wire. Connect the other side to the Remote Start Violet wire.

Black wire: Connect to a good, clean metal ground.

Orange Wire: Do not use this wire unless the vehicle has an existing remote control alarm system and you are using the Remote Starter as an add-on only. In this case, connect the orange wire to the alarm's auxiliary channel negative output. This will allow you to remote start the vehicle with the alarm system's transmitters. Note: Remote Start range will be the same as that of the alarm system.

Gray wire: Do not use this wire unless the vehicle has an existing original equipment General Motors VATS, Passlock or Passkey system; or a Ford PATS system. These systems can be identified by the key having a chip in it, and or red security light in the dash. In this case connect the Gray wire to the optional VATS by-pass Kit, or PATS by-pass kit. These kits are not included, please see your dealer.

Green wire: Connect the green wire to the tach (negative) side of the coil, or wrap it around any sparkplug wire. Do not splice or cut the sparkplug wire. Set dip switch #1 to the off position.

Blue wire: Connect this wire to the included hood pin switch. The pin switch disengages the remote starter if the hood is opened. Insert the included bullet connector into the pin switch to make the connection. Mount the pin switch to a grounded metal frame or panel. The vehicle hood must press down on the pin switch plunger for proper operation.

Violet wire: Do not use this wire unless the vehicle has an existing alarm system with a shock sensor. If the vehicle has such an alarm, cut the ground wire on the sensor and connect one side to the Remote Starter violet wire. Connect the other side to the Remote Start brown wire.

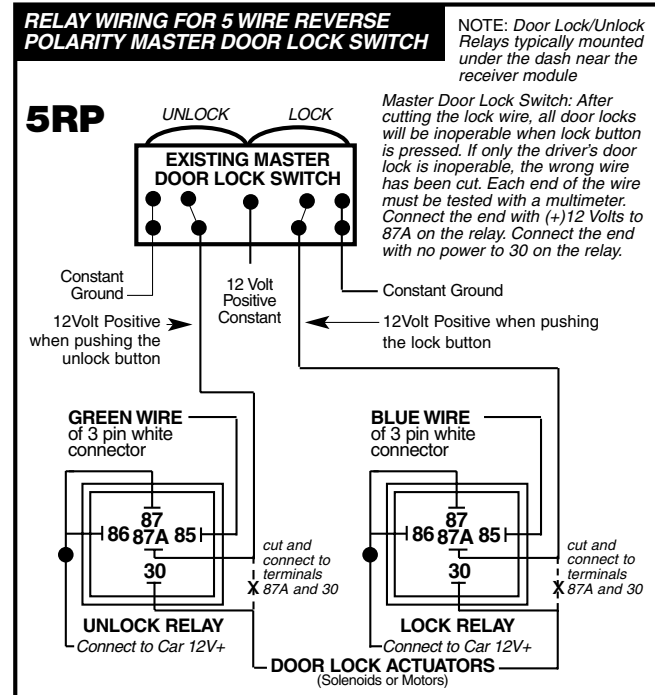
WIRING INSTRUCTIONS

3P (3 wire positive system) There are 3 wires coming from the switch. The switch has no power at rest, receives +12 volt power when in use. (See figure 3P)

5RP (5 wire reverse polarity system) There are usually 5 wires coming from the switch. The switch is grounded at rest, receives +12 volt

power when in use. (See figure 5RP)

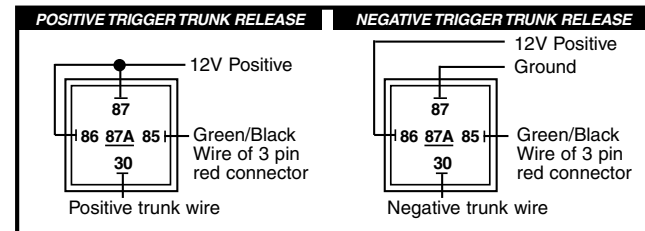
After determining type switch and identifying switch wires, you must test each switch wire for polarity (+ or -) using a test meter. After confirming polarity for each wire, proceed to connect wires in accordance with the appropriate wiring diagram, 3P or 3N or 5RP.



NOTE: DO NOT remove or change any factory relays already in place.

PROCEDURE FOR INSTALLATION OF TRUNK/HATCH RELEASE

NOTE: The wires can usually be found at the trunk release switch



INSTALLATION INSTRUCTIONS CONTINUED

ENTIRE INSTRUCTIONS SHOULD BE READ BEFORE BEGINNING INSTALLATION.

Two pin blue connector: This is for the service/program switch. Mount this switch near the drivers side and in a hidden location under the dash. It should be accessible for use.

6) REMOTE PROGRAMMABLE FEATURES: The remote starter has four programmable features:

#1 - 2nd ignition relay on/off

On = used for 2nd ignition output.
Off = used for 2nd accessory output

#2 - Engine run time

On = 12 minutes
Off = 24 minutes

#3 - Door lock pulse time

On = .75 seconds
Off = 3 seconds

#4 - Double unlock pulse

On = single unlock pulse
Off = double unlock pulse

How to enter into the program mode:

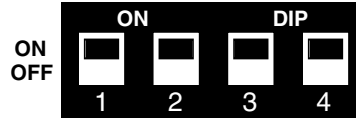
- 1) Turn the ignition key to the on position.
- 2) Within ten seconds press the service/program switch five times. The parking lights and the dash mount LED will flash three times. The system is now in program mode.

How to program a feature:

- 1) Press the service/program switch the same number of times as the feature number above. Once is for feature #1 2nd ignition relay on/off, twice is for #2 engine run time, etc. The parking lights and dash mount LED will flash each time the switch is pushed to confirm.
- 2) Press button #1 on one of the remote transmitters to turn the feature to the "on" position. The parking lights and dash mount LED will flash one time to confirm.
- 3) Press button #2 on one of the remote transmitters to turn the feature to the "off" position. The parking lights and dash mount LED will flash twice to confirm.
- 4) The system will automatically exit from the program mode.

7) DIP SWITCHES:

There are four individual dip switches, each controlling a specific function. The switch should be left in the "on" position if it is not being used. To use the function, put the dip switch in the "off" position

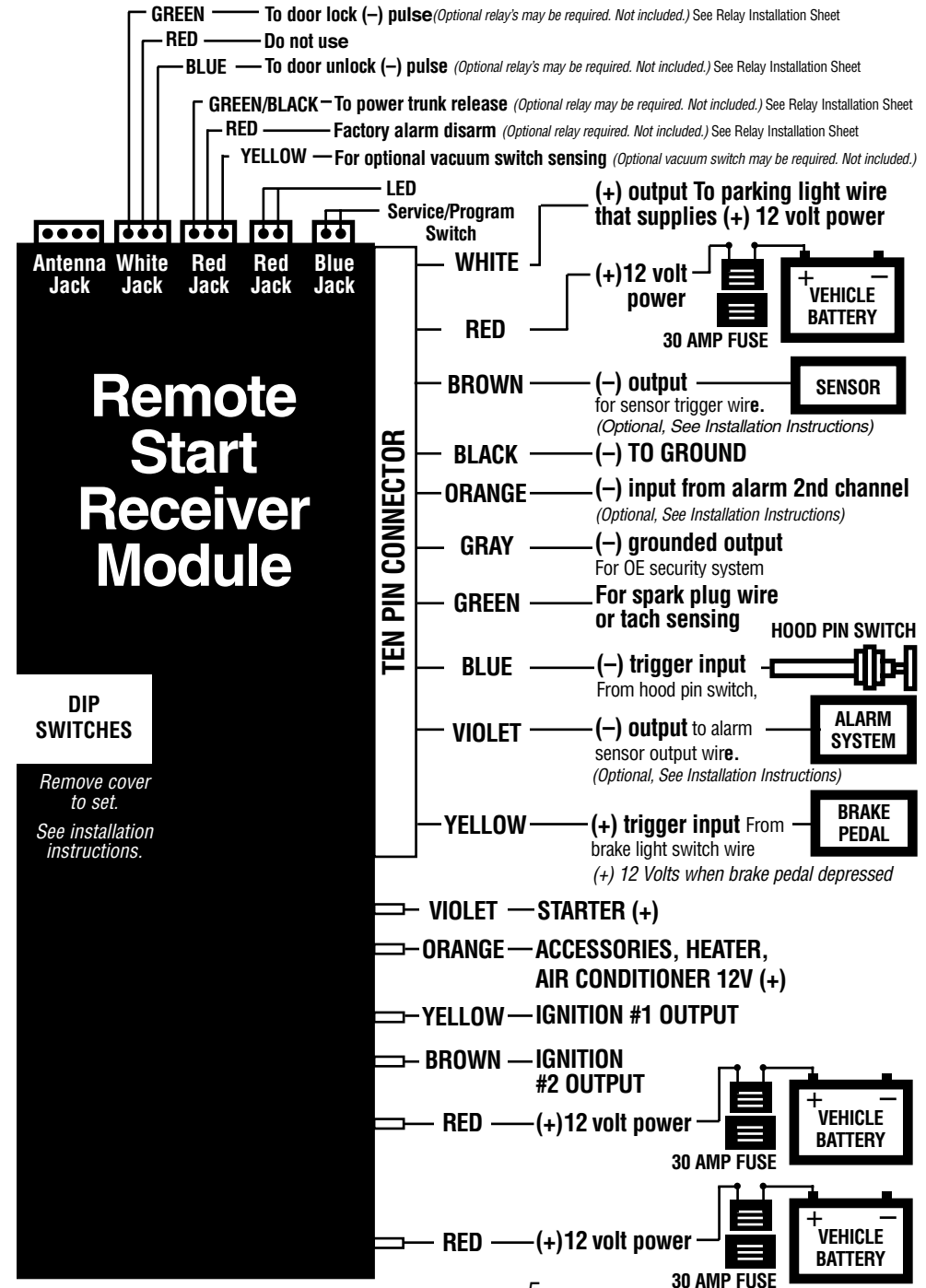


- #1:** Is used for the tach or sparkplug wire sensing hook up. Put this switch in the "off" position.
- #2:** Is used for the optional vacuum switch. Put this switch in the "off" position if you are using the optional vacuum switch.
- #3:** Is used to increase the starter crank time. To increase the crank time put the switch in the "off" position.
- #4:** Is used if the vehicle has a diesel engine. If the vehicle has a diesel engine, put this switch in the "off" position.

TROUBLE SHOOTING

PROBLEM	POSSIBLE REMEDY
Unit will not respond to remotes	Check power and ground connection. Try to reprogram remote back into module.
Vehicle will not crank	Check connection to starter wire.
Vehicle starts, then shuts down	Check tach wire connection. Check for factory security system
Vehicle starts but check engine light comes on	Check for 2nd ignition
Keyless entry works but will not remote start. LED light solid red.	Check to see if unit is in service mode
Vehicle is starting on its own.	Check to see if unit is in auto cold start mode
Vehicle will not stay running, needs longer crank time.	Check to see if switch #3 is in off position

WIRING DIAGRAM



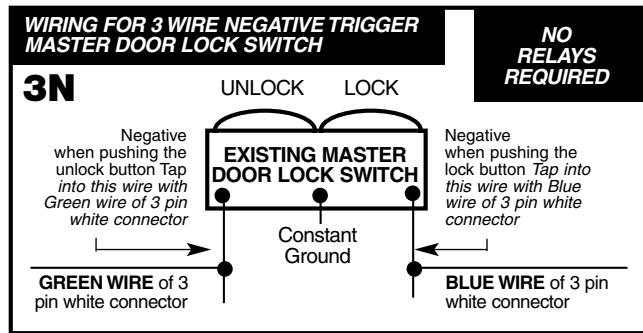
DOOR LOCK AND TRUNK/HATCH RELEASE

Determine the type of master door lock system your vehicle has. This can be done by either referring to the enclosed Remote Start Vehicle Wiring Guide or going directly to the vehicles master door lock switch. Since most, but not all vehicles are listed in the guide, it may be necessary to go directly to the switch. To do this, remove the driver's side door panel*. Locate the master door lock switch and

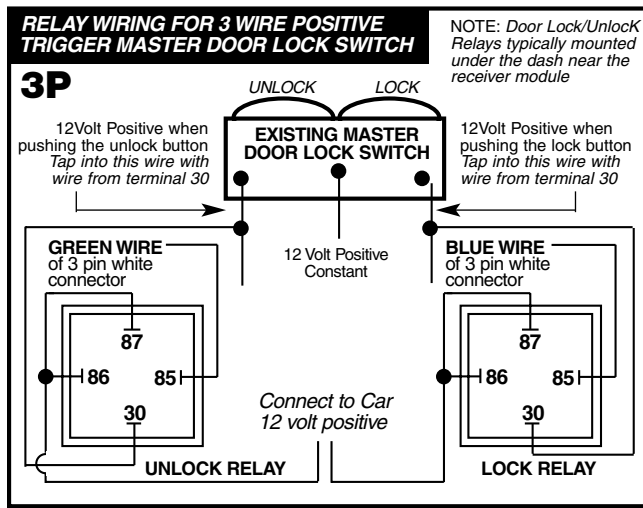
count the number of wires extending from the switch. There are predominantly three types of master door lock switches.

3N (3 wire negative system) There are 3 wires coming from the switch. The switch has no power at rest, grounded when in use. (See figure 3N)

Switch wires marked with an (→) arrow pointer require connection to wiring harness.



NOTE: DO NOT remove or change any factory relays already in place.



There are a small number of cars where the master door lock switch is located behind the passenger's side door panel. Typically these cars are: 93-96 Chevy Camaro, 84-96 Corvette, 92-98 Ford full size Van, 94-97 Ford Thunderbird , 94-97 Mercury Cougar and 93-96 Pontiac Firebird.

Yellow wire: Connect this wire to a brake switch wire that provides +12 volts when the brake pedal is pressed. This is a safety feature that disengages the Remote Starter when the brake pedal is pressed.

4) SIX SEPARATE POWER AND IGNITION WIRES: These connections will be made with wires found in the vehicle's ignition switch wiring harness.

Red wire #1: This is the systems main power wire. Connect this wire (with the in line fuse holder) to the +12 volt side of the battery.

Red wire #2: This is the auxiliary power input. Connect this wire (with the in line fuse holder) to the +12 volt side of the battery.

Brown wire: This is the auxiliary ignition or accessory wire. Do not use this wire unless the vehicle has a second ignition or accessory wire. Many late model vehicles have a second (or more) ignition or heater, defroster, air conditioner, etc. wire. If that is the case, connect the brown wire to the wire in the ignition switch wire harness that switches to +12 volts when the car is being started and does not shut off.

Yellow wire: This is the main ignition wire. Connect this wire to the vehicle ignition switch wire. This wire measures +12 volts when the ignition is in the run and start positions. This wire provides current to the vehicles coil or ignition system.

Orange wire: This is the main accessory wire. This wire activates the vehicle heater, defroster, or a/c when using the Remote Starter. The blower, heater, defroster or a/c must be left on to operate. Connect this wire to the accessory wire that measures +12 volts when the ignition is in the "run" position.

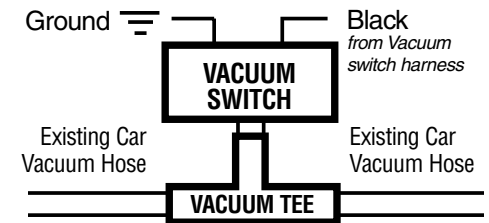
Purple wire: This is the starter wire. Connect this wire to the vehicle starter wire that measures +12 volts when the ignition is in the "crank" position.

5) PLUG IN CONNECTORS

Four pin white extended range antenna connector: Plug the black cable into the white four pin connector. Run the cable under the windshield pillar and headliner. Plug the cable into the antenna. Mount the antenna to the windshield with the included double sided tape. The antenna works best mounted at the top of the windshield, centered above or behind the rear view mirror.

Three pin white connector: Optional. This allows you to lock/unlock the doors by remote control. The vehicle must have existing electric power door locks for this feature to operate. Optional relays (not included) may be required, see the relay installation sheet. This harness has three wires with a white plug. Connect the blue wire to the (-) negative output for unlock. Connect the green wire to the (-) negative output for lock. Do not use the red wire.

Three pin red connector: This harness provides optional features. You can operate an existing power trunk release by remote control (optional relay required, not included), interface with a factory alarm system, or use the vacuum switch sensing method. This harness has three wires and a white plug. The green/black wire is for the optional power trunk/hatch release. The vehicle must have an existing power trunk or hatch release for this feature to operate. An optional relay is required, see the relay installation sheet. Connect the green/black wire to the power trunk/hatch release switch. The red wire is used to disarm an existing factory alarm system, allowing the doors to be unlocked prior to remote starting. This is optional, and only used if the vehicle has an existing factory alarm. Connect the red wire to the wire that requires a ground pulse to disarm the factory alarm system. The yellow wire is used for the optional vacuum switch sensing method. If the vehicle stalls, or does not keep running, an optional vacuum switch (not included) must be purchased and installed. If a vacuum switch is used, set dip switch #2 to the off position. Install the vacuum switch as follows:



Two pin red connector: This is for the dash mount LED. The dash mount LED confirms various functions. Locate a position on the dash as high as possible for maximum visibility. Check that you have space in front and in back of the mounting location. Drill a 1/4" hole, route the wires and mount.

REMOTE TRANSMITTER OPERATION



Button 1

OPTIONAL DOOR LOCK

Press button 1 for approximately two seconds to lock doors.



Button 2

OPTIONAL DOOR UNLOCK

Press button 2 for approximately two seconds again to unlock doors.



Button 3

OPTIONAL POWER TRUNK/HATCH RELEASE

Press button 3 for approximately two seconds to release power trunk or hatch.



Button 4

REMOTE START OPERATION

Press button 4 for approximately two seconds to activate remote start
Press button 4 for approximately two seconds again to deactivate remote start.

AUTO COLD START OPERATION

Press and hold the service program switch and button 2 simultaneously for five seconds to activate auto cold start.

Press and hold the service program switch and button 2 simultaneously for five seconds to deactivate auto cold start.

DASH MOUNT LED

Slow flash - Doors are locked (optional keyless entry)

Rapid flash - Vehicle has been remote started and is running.

Solid - Remote start is in the service mode.

Double flash - Auto cold start mode is activated.

PARKING LIGHTS

One flash - Doors are locked (optional keyless entry)

Two flashes - Doors are unlocked (optional keyless entry)

Four flashes - Vehicle was not started.

Five flashes - Auto cold start mode is activated.

Ten flashes - Auto cold start mode is deactivated.



REMOTE CONTROL CAR STARTER

OPERATION INSTRUCTIONS

With Keyless Entry and Power Trunk Release

Model RS125

FEATURES

- Start your vehicle and turn on the heater, defroster, or air conditioner from inside the comfort and convenience of your home, office, etc.
- Up to 500 foot range.
- Four button, 3 channel remote control transmitter.
- Code learning microprocessor receiver.
- Parking lights activate to confirm operation and status.
- Dash mount LED confirms operation and status.
- Programmable engine run time, 15 or 25 minutes. Engine automatically shuts off if the key is not inserted into the ignition before the end of the selected run time.
- Adjustable starter crank time.
- Automatically makes up to three attempts to start the vehicle each time the unit is activated.
- Programmable auto cold start mode automatically starts the vehicle and runs the engine for the selected (15 or 25 minutes) run time every 2 hours for one 24 hour period.
- Programmable auto run mode keeps the engine running while you exit the vehicle with the key.
- Keyless entry outputs for optional remote door lock/unlock. Optional relays may be required (not included).
- Power trunk/hatch release output for optional power trunk release. Optional relay may be required (not included).
- Service switch temporarily disables remote starter for attendant parking, service, etc..
- Limited lifetime warranty.

LIFETIME LIMITED WARRANTY

IC DYNAMICS warrants to the original consumer purchaser that control modules and transmitters are free from defects in material and workmanship for the lifetime of the vehicle in which they are originally installed. IC DYNAMICS will repair or replace, at our option, and free of charge, module or transmitter which proves defective in material or workmanship under normal installation, use and service during the first year. Thereafter, parts will be repaired or replaced with a maximum charge of \$50.00 per module

and \$30.00 per transmitter for labor and handling plus shipping charges.

Products are to be returned to IC DYNAMICS prepaid freight accompanied by a Bill of Sale or other dated proof of purchase.

This warranty is nontransferable and is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction.

This warranty is limited to defective

parts and/or replacement parts only and excludes any incidental and consequential damages connected therewith. Some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitation or exclusion may not apply to you.

Batteries, installation labor, removal and installation are not covered by this warranty.

IC DYNAMICS is not insuring or offering warranty against theft of vehicle or its contents.

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REMOTE START OPERATION

Start your car from inside your home using the remote transmitters. Ideal for pre-warming your car on cold winter days or cooling it down during the summer. Plus, have the convenience of locking and unlocking your car and release the power trunk/hatch with the remote transmitters. Door lock/unlock and power trunk/hatch release are optional. Range is approximately up to 1000 feet.

BEFORE USING THE SYSTEM

Proper ventilation is required to avoid serious personal injury. Never operate the remote starter in an enclosed garage, building, etc. Carefully read the instructions to familiarize yourself with all the features and benefits before attempting to operate the unit.

HOW TO REMOTE START THE VEHICLE

Press button four on either transmitter. Approximately two seconds later the vehicle will start and the dash mount LED will flash rapidly. The remote starter will make up to three attempts to start the vehicle each time the unit is activated. The parking lights will flash four times if the vehicle failed to start and the doors will lock if the optional keyless entry feature is installed. Once the vehicle is started, the heater, defroster or air conditioner will activate, provided they were left on. The engine will run for 12 or 24 minutes, whichever ever it was programmed for.

HOW TO DRIVE THE VEHICLE AFTER ACTIVATING THE REMOTE STARTER

To operate the vehicle before the normal run-time expires, simply enter the vehicle; insert the ignition key; turn to on position and press brake pedal.

NOTE: If the brake pedal is pressed before the ignition is turned on, the engine will turn off. Simply restart vehicle with ignition key.

HOW TO TURN THE REMOTE STARTER OFF

If desired, the system can be turned off by pressing transmitter button four.

The remote start will disengage when one of the following occurs:

1. Fuse is removed
2. Brake pedal is depressed
3. Engine refused to start
4. Hood is opened
5. Expiration of programmed run time, 12 or 24 minutes.

AUTO COLD START

Automatic cold start, starts the vehicle and runs the engine for approximately 12 or 24 minutes every 2 hours for one 24 hour period.

To activate: press and hold the service/program switch and button 2 on the transmitter simultaneously for 5 seconds. Parking lights will flash 5 times, engine will start and run for 30 seconds and then shut off. This confirms the Remote Starter is in the Auto Cold Start mode. To deactivate: press and hold the service/program switch and button 2 on the transmitter simultaneously for 5 seconds. Parking lights will flash 10 times to confirm the Auto Cold Start is off. Driving the vehicle and/or remote starting the vehicle during the 24 hour Auto Cold Start period automatically deactivates the Auto Cold Start.

AUTO RUN MODE

This feature allows you to park and exit the vehicle with the key, while the engine continues to run.

- To activate:
1. Press and hold the brake pedal.
 2. Shift transmission into park.
 3. Press button one on either transmitter.
 4. The dash mount LED should be flashing rapidly.
 5. Take your foot off the brake pedal, turn the ignition key to the off position and remove.

The parking lights stay on while the vehicle is in the Auto Run mode

You may now exit the vehicle with the key while the engine is running. All the normal safety steps are in place, the vehicle can't be driven without the ignition key turned to the on position, the brake pedal pressed, and the transmission put into gear. To deactivate the Auto Run mode, follow the normal safety steps. If the optional keyless entry feature has been installed, it can still operate while you are out of the vehicle.

PROGRAMMABLE CODE LEARNING

Program additional transmitters with different codes to the system. The receiver micro-processor can learn up to three different transmitter codes.

1. Turn ignition ON/OFF three times rapidly (DO NOT turn key all the way to crank position). The third time you turn ignition on, leave key in ON position. Dash lights will flash once.
2. Press brake pedal and hold. Dash lights will flash rapidly.
3. Press button one on remote transmitter. Dash lights will flash once. Release brake pedal. Remote starter has now learned the new transmitter code

NOTE: When programming additional transmitters to operate the system, all transmitters to be used with the system must be programmed at the same time.

OPTIONAL KEYLESS ENTRY

Lock and unlock your doors with the remote transmitters.

Vehicle must have power door locks for this feature to operate. Optional relays may be required (not included).

OPTIONAL POWER TRUNK/HATCH RELEASE

Release your power trunk/hatch with the remote transmitters.

Vehicle must have electric power trunk/hatch release for this feature to operate. Optional relay may be required (not included).

SERVICE MODE

The service switch (usually mounted under or around the driver's side of the dash) allows you to temporarily disable the remote starter during service, valet parking, etc. You can still operate the optional keyless entry (if it is installed) but the vehicle can't be started with the transmitters. Here is how you get into and out of the service mode:

1. Turn the ignition key to the on position.
2. Press and hold the service switch for five seconds. The dash mount LED will turn solid
3. Turn the ignition off.
4. Repeat steps 1-3 to get out of the service mode.